

WHAT IS CLAIMED IS:

1. A self-foamed porous ceramic composition comprising calcium oxide, silica, and borate wherein the calcium oxide and the silica form a glass, and the borate is self-foamed at high temperature.

2. The self-foamed porous ceramic composition according to claim 1, wherein the composition comprises 41~47 mole % of calcium oxide (CaO), 41~47 mole % of silica (SiO₂) and 6~18 mole % of borate (B₂O₃).

3. A method for making a self-foamed porous ceramic, comprising the steps of: fabricating a glass consisting of 41~47 mole % of calcium oxide (CaO), 41~47 mole % of silica (SiO₂) and 6~18 mole % of borate (B₂O₃); pulverizing the glass into a finely-divided glass powder having an average particle size of 1~10μm; molding the glass powder; and sintering the molded glass powder.

4. The method for making a self-foamed porous ceramic according to claim 3, wherein the sintering is carried out at a temperature of 950~1,200°C.

5. The method for making a self-foamed porous ceramic

according to claim 3, wherein the porous ceramic is bioactive.